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No. 10

amersons book

An
Inaugural Dissertation
for the
Degree
of
Doctor of Medicine

Submitted to the Examination
of the

Trustees and Medical Professors
of the

University of Pennsylvania.

by Chs. Sturdivant - admitted March 10th 1821

17th March 1841

My dear Sir

I have the pleasure

to inform you

that I have received

your letter of the 14th inst.

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Amenorrhoea

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This term is derived from the Greek, and signifies an interruption of the menstrual discharge; it is by practical writers divided into retention or economic menorrhoea of Latin authors, and suppression of the menses; the last division is sometimes subdivided into checked, & prevented menstruation. By the former we understand, that the discharge from some cause is retarded beyond the period when it should make its first appearance, by the latter, that the discharge may have taken place, but has been suppressed or prevented from returning at the usual subsequent periods, from some other cause besides that of pregnancy or lactation. It might here be expected, that I should consider for a moment the nature of this discharge, and the purpose which it fulfils in the animal economy; but this is a task which I most willingly resign, both from the want of talent and inclination, to those who delight in theory, and are fond of exploring the fields of uncertainty. It has long been a problem, why nature has subjected females to this discharge, and a problem, which I do not believe has ever been altogether satisfactorily explained, as numerous as the theories are

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which have been offered on the subject. Mr. Menstris has ventured to give us a solution of it; his hypothesis although ingenious, has not led us entirely out of the dark on this question. He supposes that it relieves the irritation of the uterus and mitigates the extreme of sexual desire, thus enabling a woman to conform to the laws of morality, and the social compact that are established between us: Having Mr. Menstris's theory to rest on its own foundation, I shall only add that I believe this discharge to be necessary, by the inclination of nature to promote health, and in some way to contribute to conception. We reject the hypothesis of this discharge being an hemorrhage from the uterus, produced by a mechanical dilatation of the extremities of the uterine vessels, and confisit to be a peculiar and genuine secretion; the uterus taking on the office of a gland. ~ ~

With these introductory remarks, I shall in as simple and concise manner as possible, give a history of the cause, symptoms, and treatment of the different forms of amenorrhoea. I proceed first to speak of retention of the menses. All females do not menstruate at the same period of life, in consequence of a difference of

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constitution, some arising at the age of puberty, much sooner than others: a different temperature of climate, however has considerable influence, in regulating the period of the first appearance of this discharge; those inhabiting warm climates being subject to it at a much earlier period of life, than those living under colder latitudes. In this country from the fourteenth to the sixteenth year, is the time when most females begin to menstruate, but as there are often variations from this rule without any injury to the health of the female, we cannot call every case of retention, a disease because a female does not menstruate at a period which is common for most females, unless the situation be accompanied with such chlorotic symptoms, and disorder in other parts of the system as can be justly attributed to that cause. The retention of the menses seems to be owing to a want of power in the uterus, or to such deficiency of action, as prevents it from performing its healthy secretory functions; but what it is that produces this weakness and want of action at this time of life in females, appears to be a question involved in some obscurity. It is certain that there is a connection between the state of the ovaries and the progress of menstruation, a defective or

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which condition of the lungs being always followed by morbid symptoms in the latter, but whether this connection be mere coincidence and concomitant circumstances, or whether they are to be considered as cause and effect, I cannot positively decide. The stomach, and its assistant Splanchnic viscera seem to exercise great agency over the uterus, since impaired digestion, anorexia, costiveness, and many symptoms of dyspepsia usually accompany or precede this disease.

Symptoms besides those just mentioned in the last paragraph are the following. Languor, listlessness, to receive of any kind, debility, and a preternatural appetite for chalk lime, and other absorbent substances head ache, with pain in the back, loins and hips, and acidity in the stomach. The patient is fatigued and troubled with palpitations of the heart, on the slightest exertion. The pulse is quick and small, and the cough by ^{itself} has a cough added to the catalogue of her sufferings. As the disease progresses the rose of health, the bloom of the cheek advances their empire, and the lips lose their vermilion tint, the eyes are encircled with a livid areola, and the ambrosial fragrance of the breath is exchanged for the most offen-

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vie, &c. The countenance presents sometimes a pale, greenish complexion, and hence the name of green sickness or chlorosis of authors. Adematous swellings, a leucophlegmatic habit, and a general flaccidity of the whole system, attend as consequences of this complaint, and hither from sometimes supervenes. I then conclude the history of its symptoms.

Treatment. There are two indications in the cure of this disease, the first is to restore the general health, and tone of the system, the second to cause the vessels of the uterus to the due performance of their healthy secretory functions. The first indication may be fulfilled by all those means which impart health and vigour to the system, by tonics, balneation, exercise, and a proper attention to diet. I have before observed that costiveness, and much gastric derangement often accompanied this disease; for this reason I deem it of service to, preclude the exhibition of other remedies by a gentle emetic, it will prepare the stomach for their exhibition and give them greater efficacy & certainty of effect. As we say a proper attendant should be paid to the state of the prima viae they may acquire a torpid condition, and communicate a similar torpor to the uterus. It may be a proper place here to mention

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that Dr Hamilton in his valuable work on the use of pur-
gative medicines, recommends frequent purging, as the most
successful mode of treating this complaint; he generally
employs the rectrices alone, either alone, or in combination with
some other drastic resinous purgatives. It has been a long time
customary to prescribe the anchona in this complaint, with
a view to its tonic powers, either alone, or combined with
other tonics & cathartics. Whatever may be its powers when pre-
scribed alone, I suspect they would be very much increased
by the addition of some other article, such as the preparations
of iron and pure bitter tonics. The following formula seems to
be a good combination of these articles

R. Myrrh. Pulv. ℥j

Trin. Sulphas. ʒi

Sodae Subcarb. ꝑo xv

Ex: Anchona. ʒj

Syrup. Zingib. q.s. M. f. Maf. et divid. in pilul. XXIV
One of these may be taken four or five times a day according
to circumstances. Gentian, quinia & other bitter tonics are
entitled to no small share of confidence in accomplishing

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the first indication of use, but it is to be recollected, that those
possessing an astringent property, in any considerable degree, are inap-
plicable in all cases of relaxation of the muscles. The different prepa-
rations of iron are probably more entitled to our confidence than
any of the vegetable tonics Iron has always been considered as
very friendly to the human system, and there is perhaps no
article of the materia medica, that wins the effect of a
more powerful tonic or have behind it more valuable re-
sponses. To which preparation of this metal I am to give
the precedence, I am at a loss to determine. The sublimed ferri or
rust of iron, as it is commonly called, seems to be both mild &
certain in its operation. It may be given powder, with a little
mucilage or syrup, in doses from six to fifteen grains, to be
repeated pro re nata. It may also be given in form of pills or
calybrate wine, the latter form sometimes answers very well
in cases of relaxation, where the stomach is in a very irritable
and debilitated condition. The sal martis is a valuable prepara-
tion in this complaint. It may be given alone or in combination
with the vegetable tonics, a useful formula of which has already
been detailed. The haustus ferri murialis, is the last medicine

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Louis I shall mention in the use of leeches, it being scarcely
 more alive than the before mentioned article, it may be of utility
 when they have failed to do good. Bathing has always stood pro-
 minent among the means of cure in the treatment of the cata-
 mania. The cold bath is of doubtful efficacy, it is only to be used
 when followed by a sense of heat, and comfort; if chills, languor
 & head ache be the consequence of its use, it must
 be relinquished. The warm bath would in most instances succeed
 much better. Exercise is not the last important among other remedies.
 dancing, jumping the rope, and riding on horse back are salutary
 exertions for a chlorotic patient. She might be much benefited
 by a visit to some calybrate springs where the air is pure and
 the company pleasant, and agreeable. In all cases she should
 guard against a gloomy despondency, and a suspicion of spirits, and
 not like Shakspeare's unhappy lover,

"Pain in thought,

And with her green and yellow melancholy;

Lies like Patience on a monument, smother'd in grief."

If any digestive symptoms occur they are to be relieved by their
 appropriate remedies, which need not be mentioned here. In all cases

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the first indication of cure is to be assisted by a nutritious and digestible diet, with a portion of wine. Milk and vegetables should compose the principal part of her aliment, yet it is not necessary to restrict her entirely from animal food. Those remedies now detailed appear to be those most commonly prescribed in the fulfilment of the first indication. I now proceed to the second indication of cure, viz, to awaken the action of the uterine vessels. This will be effected by wine, by local stimulating applications, by bathing, by stomachic cathartics, by electricity, and that class of medicines which are called *emmenagogues*. That species of exercise which is most proper has been already mentioned in speaking of the first indication of cure, and not a little is to be confided to its beneficial effects, since it has a tendency to determine the blood into the descending portion of the aorta, and hypogastric arteries, and thereby communicating an excitement to the uterus, and raising it from its torpid state. On the same end, it has been suggested to compress the chest externally, but Dr Bland expressed that those few trials which he had seen made, were productive of little or no benefit. The use of the warm pediluvium, and semicupium may might in going to bed may be expected to do good in this complaint, the adoption of

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common salt renders it more efficacious. The modes of procedure of this
 remedy may be made intelligible on the same principle as that of ex-
 amination. I would have asked what would be the effect of rubbing the
 body all over with fine dry salt. Local stimulants, as vesicating appli-
 cations to the sacrum, and the innia of the thigh would be of in-
 finite service could they be always applied; but there is always such
 an invincible antipathy with most females to such harsh and disre-
 putable applications, and they are so offensive to female modesty, that
 we shall find few who are disposed to submit to them. A decoction
 out of hot water, and applied to the pudenda, would probably be
 less offensive, and not altogether inert in their effects. The most am-
 biguous I shall mention is venery, this is a local stimulant (if I may so call it)
 which most authors concur in recommending in this kind of amenorrhoea
 whenever it can be used with propriety. I speaking from my own private
 mind I can say nothing of this remedy; it is one indeed we should always
 hesitate to recommend. That it ~~may~~^{is} ~~may~~^{is} be useful, I am not al-
 lowed to doubt, since it comes from very high authority. But I
 cannot think it so applicable in the form of amenorrhoea now
 under consideration, as in the suppression of the menses. If all the re-
 medies in use in this distressing complaint, there are we entitled to a just

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or share of confidence than some of the various purgatives. Aloe, scam-
 mony and gamboge are these most highly recommended. It has been ad-
 viced to add balsam to these purgatives, but balsam in the disease is
 to be given with much caution, and circumspection, and even in balsams
 uncombined with peruvian or hyaline affections, is it to be ge-
 ven with a view of procuring its specific impurities on the system.
 The aloe which appears to be the most efficient of the various purgatives
 may be given in combination with gamboge, or the compound aleo-
 the pills may be given. Purgatives act by stimulating the rectum, and
 communicating their impurities to the uterus, and we should always
 give the medicine in such doses, and at such intervals as to keep
 up a steady uniform irritation in the rectum. Electricity passed
 through the vagina of the uterus, perine is applied so as to act im-
 mediately on the uterus, has been found at times to be productive
 of much benefit. Every materia medica abounds with a long list
 of articles which have been emphatically called emmenagogues.
 But most of these are of doubtful promise, and often do mischief
 when injudiciously prescribed; they are commonly more applica-
 ble in cases of suppression than retention. The pyrogala longa has
 been of late very highly recommended, and is said to be suita-

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It is very known & acknowledged. It has been employed by several very celebrated Physicians in Philadelphia, who speak unequivocally of its utility. The cubic treatment comes to us backed by very high testimony in its favour. It is directed to be given in doses of a tea-spoonful, enlarged in a little emulsion or syrup. These are the general directions in relation of the success, but it sometimes happens that Cholera is combined with Plethoric pulmonary, when this is the case, it will be of service to administer an emetic occasionally. The sulphate of zinc would be proper in such a case. The bowels are to be kept open, and if better, even suppositories may be combined with the sulphate of iron may be given. A burn in the arm may be relieved by a blister, or some warm stimulating plaster. If cough be troublesome, the squill will serve as a good expectorant, and should be given by an opiate at bed time. I now proceed to the consideration of the suppression of the Menses. --

This I have already observed is divided into preventive and checked menstruation, but as this division leaves to no practical utility we shall take no further notice, since this mode of treatment is essentially the same. We shall speak of them both under the more general term of suppression. What is meant by this last term I have

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steady exhalation; but it is to be recollected that every interruption of this flux, after it has once taken place, is not to be considered a case of suppression, for the menses is often irregular in some months, and sometimes years, after its first appearance before it becomes regularly and fully established. Causes. a suppression of the catamenia arises from cold, fear, any powerful passion of the mind, inactivity of the body, any of those causes which act violently on the nervous system, and the use of acids and other sedatives. Symptoms connected with the absence of the discharge, are labile and inflammatory affections, a hard and frequent pulse, pain in the head, back, and loins; the patient suffers from colicky pains, hysteric, and dyspeptic affections, vicarious discharges from the stomach, lungs and other parts of the body. The treatment is in a great many respects, similar to that in chlorosis, at least symptoms here may be relieved the same way as the like symptoms in retention of the menses, this difference however obtains, that in retention, tonics and cold baths are said to be of service, and emmenagogues generally vigorous, but the worse of this happens in suppression of the menses. When there is a hard, and full pulse, with much excitement in the system, venesection is a remedy from which we are to derive but much

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leupit. Opites by the warm bath, general or local, the result
 will be still more beneficial. To increase the relaxing power of
 these remedies, and to allay pain and irritation, an opiate may be
 given by mouth or per anum, the latter method would seem
 preferable in many cases. If suppression of the menses be caused
 by some chronic disease as consumption or a dropsy, an attempt
 to restore this discharge, more especially by stimulating medicines
 will seldom fail to do much mischief. The attention of a physician
 will here always dictate to him the method to be pursued. ~~Suppression~~
 as in all other cases of this complaint, we are to keep our attention
 directed to the state of the bowels. They are to be kept in a regular con-
 dition by the administration of cathartics. The aloetic pill has universal
 reputation among other purgative medicines in these cases. If the digestive
 organs are changed, tonics and bitters are indicated. As cooperating with
 the above mentioned medicines, emmenagogues, skillfully and judi-
 ciously employed demand much of our confidence. I shall not here enu-
 merate all the emmenagogues mentioned by different writers on the
 materia medica, but merely notice some of those of the most
 approved efficacy. The tincture of guaiacum has acquired the most un-
 qualified confidence of an eminent practitioner of this place. I shall

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to Dr. Wier) he says that when given in ~~cases~~ cases of icterus, rather
 subpyrexia and perspired in, for a sufficient length of time, he
 he has never seen it, ^{fail to} bring on a discharge. The Hygala Lungs has
 of late years been added to the list of emmenagogues. Dr. Richter was
 the first who proclaimed its great powers in amenorrhoea, and
 its good qualities have since been corroborated, and promulgated
 by the professors of the practice and institutes of physic in the
 in the University of Paderbornia; it is supposed to be singularly
 useful, when there exists a living overburden in the uterus. It is
 recommended to be given in aceton or pueria; the aceton is
 generally preferred. When its exhibition the system is to be attended
 to, and too much excitement or debility, is to be obviated by the
 proper means. The jamaica sassafras, and calabar tinctorum have
 strong testimonies in their favour, and they doubtless have done
 good in skilful hands. The helleborus niger was introduced into
 practice by Boerhaave as an emmenagogue, who speaks unequivocally
 of its discharge efficacy, and subsequent experience with this ar-
 ticle, in the hands of other practitioners, confirm much of what
 he has said of it, it is therefore worthy of a trial.

Many medicines acting climacterically have been extolled in this disease.

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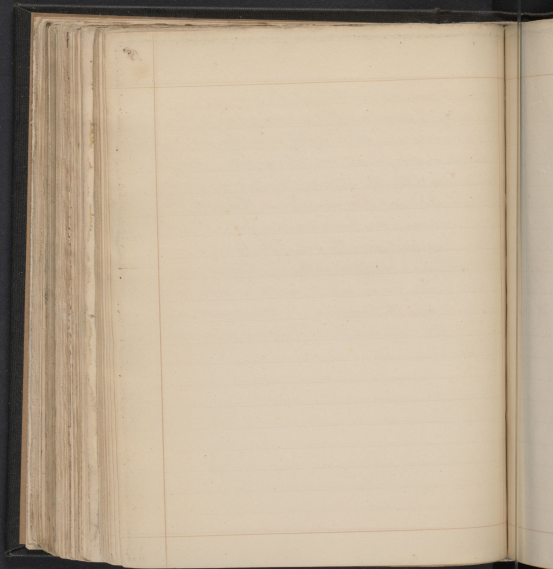
as the *ana. can.*, *test. cantharid.*, *digitalis purpurea*, *St. ethio. ni-*
tere, *St. trid.*, *rectification*, and some of which no doubt
 has occasionally proved salutary results.

Females are sometimes troubled with a partial obstruction of the
 menses, or a difficult and profuse menstruation, technically call-
 ed *hypermenstrua*. This form of the complaint depends upon the
 formation of a lining membrane in the uterus, which is occasion-
 ally infected with pains greater, than those of child bearing
 and is always a source of the greatest inconvenience, and a distress
 to the patient. When there is an increased action in the blood =
 repels venesection is a promising remedy. Warm fomentations
 to the region of the pubis, Plaster to the os uteri, and some
 other remedies already mentioned, will be found to give relief
 for a time - it is here that the *secula* corruption has been said
 to display some of its greatest powers. Whether the statement in fa-
 vor of it, be true, rest on far greater authority than my own.
 But it here that camphor comes to us supported by the most
 respectable authority; it is conveniently exhibited in form of
 the camphorated julep. *Spium* here as in *phthisis pulmonalis*
 combine with camphor, may be said to be the *magnus* *Be*

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domum"; the great and bountiful gift of heaven.

It is worthy of remembrance that females exposed to this disease should carefully avoid all the exciting causes, cold, fear, indigestion, passions, improper diet, and costiveness. I have concluded the consideration of the different forms of menstrual derangement, and their treatment, and shall now only add, that with the armory of medicine, a due perseverance on our part, a strict observance of our directions on the part of the female, we may generally obtain a successful victory over this great enemy of female health, give our skill its merited triumph, raise our patient from the languishing bed of sickness, and restore her to health, beauty and the solicitations of friends and relations - -



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